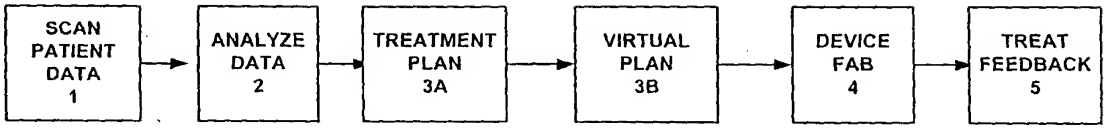
SCAN PATIENT DATA 1
ANALYZE DATA 2
TREATMENT PLAN 3A
VIRTUAL PLAN 3B
DEVICE FAB 4
TREAT FEEDBACK 5

FIGURE 1A

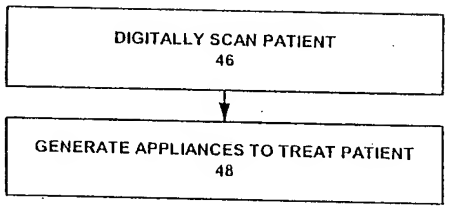

FIGURE 1 B

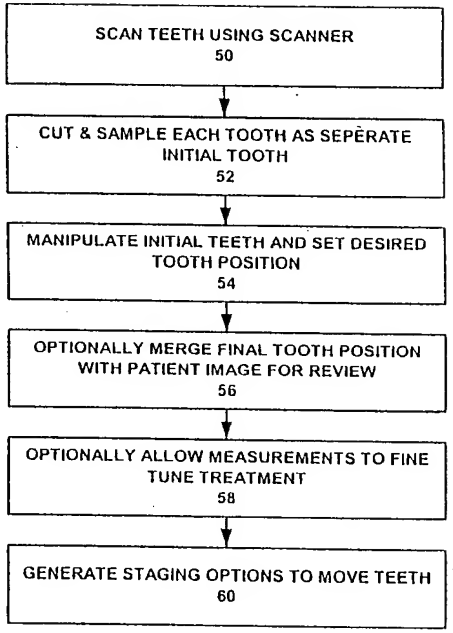

FIGURE 1 C

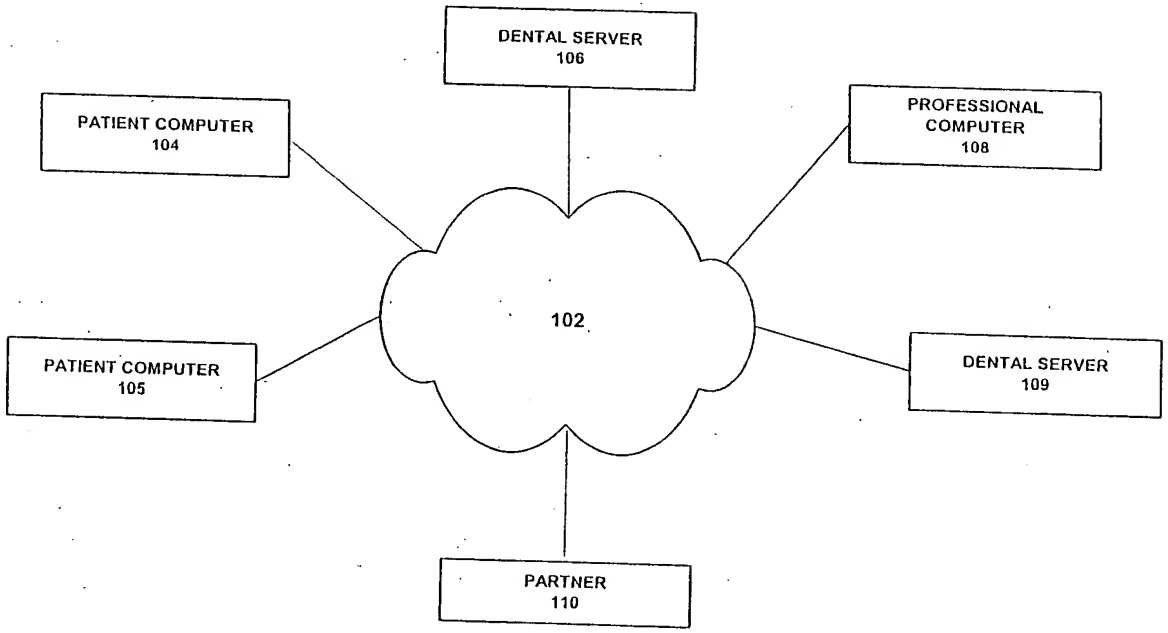
DENTAL SERVER
106
PATIENT COMPUTER
104
PROFESSIONAL
COMPUTER
108
102
PATIENT COMPUTER
105
DENTAL SERVER
109
PARTNER
110

FIGURE 1 D

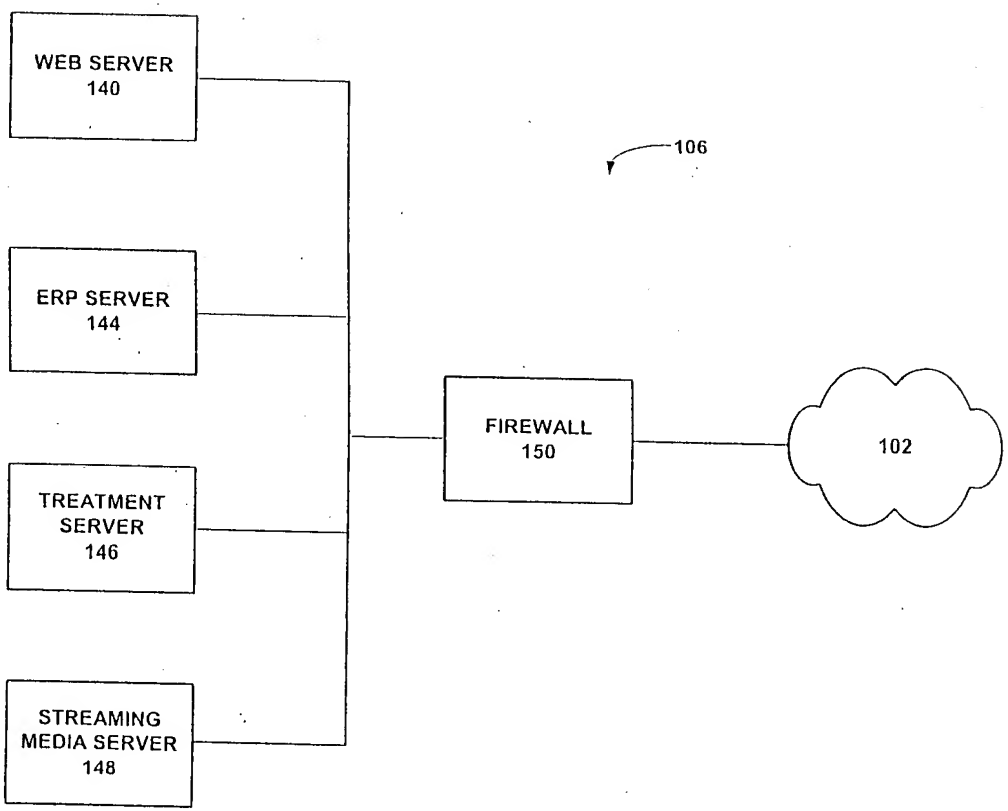
WEB SERVER
140
ERP SERVER
144
TREATMENT
SERVER
146
STREAMING
MEDIA SERVER
148
106
FIREWALL
150
102

FIGURE 2

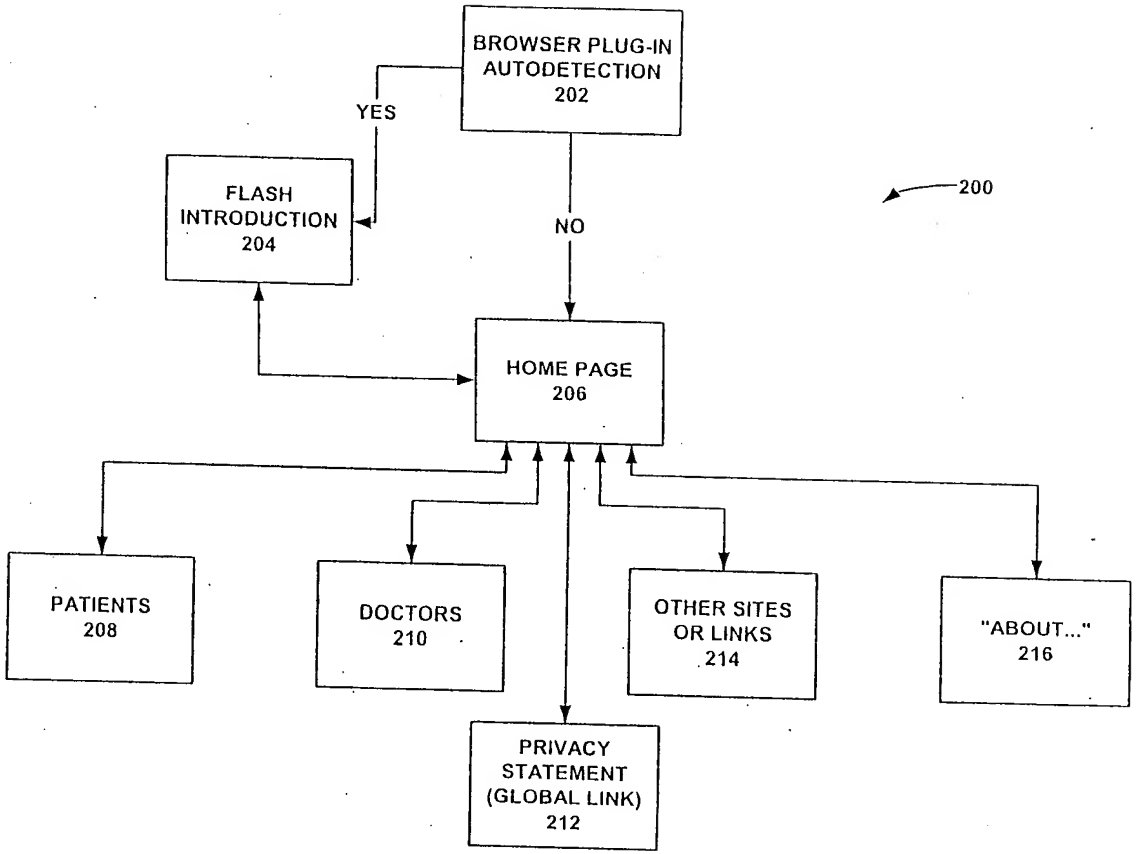
BROWSER PLUG-IN AUTODETECTION 202
YES
NO
FLASH INTRODUCTION 204
200
HOME PAGE 206
PATIENTS 208
DOCTORS 210
OTHER SITES OR LINKS 214
"ABOUT..." 216
PRIVACY STATEMENT (GLOBAL LINK) 212

FIGURE 3

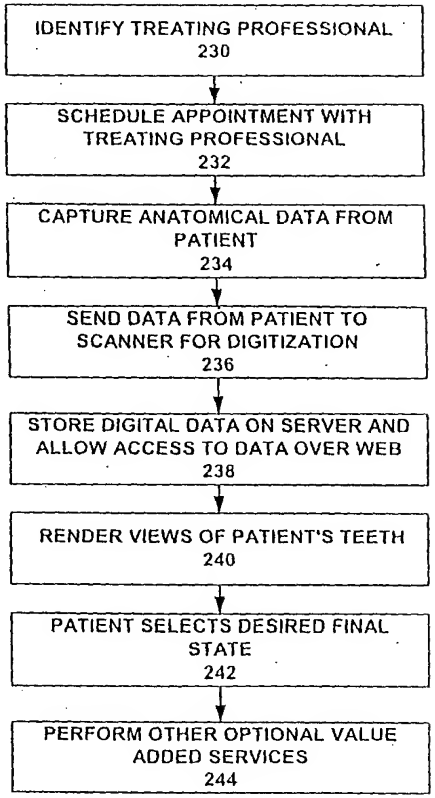
IDENTIFY TREATING PROFESSIONAL
230
SCHEDULE APPOINTMENT WITH TREATING PROFESSIONAL
232
CAPTURE ANATOMICAL DATA FROM PATIENT
234
SEND DATA FROM PATIENT TO SCANNER FOR DIGITIZATION
236
STORE DIGITAL DATA ON SERVER AND ALLOW ACCESS TO DATA OVER WEB
238
RENDER VIEWS OF PATIENT'S TEETH
240
PATIENT SELECTS DESIRED FINAL STATE
242
PERFORM OTHER OPTIONAL VALUE ADDED SERVICES
244

FIGURE 4

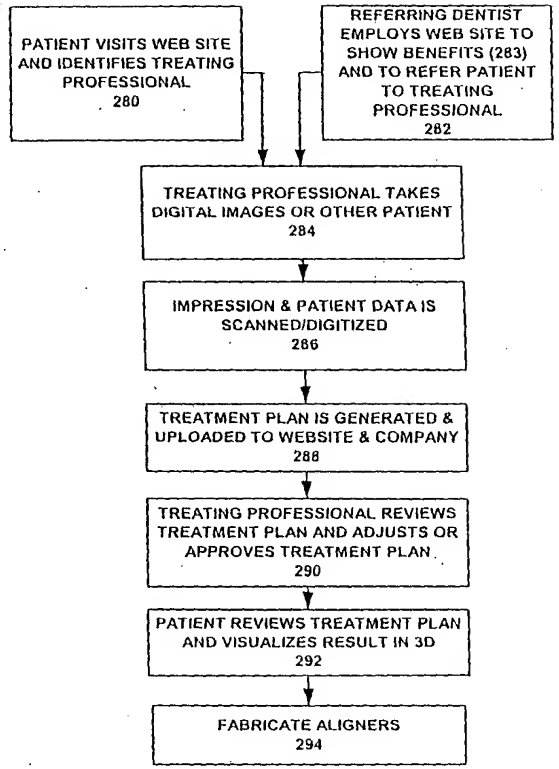
PATIENT VISITS WEB SITE AND IDENTIFIES TREATING PROFESSIONAL
280
REFERRING DENTIST EMPLOYS WEB SITE TO SHOW BENEFITS (283) AND TO REFER PATIENT TO TREATING PROFESSIONAL
282
TREATING PROFESSIONAL TAKES DIGITAL IMAGES OR OTHER PATIENT
284
IMPRESSION & PATIENT DATA IS SCANNED/DIGITIZED
286
TREATMENT PLAN IS GENERATED & UPLOADED TO WEBSITE & COMPANY
288
TREATING PROFESSIONAL REVIEWS TREATMENT PLAN AND ADJUSTS OR APPROVES TREATMENT PLAN
290
PATIENT REVIEWS TREATMENT PLAN AND VISUALIZES RESULT IN 3D
292
FABRICATE ALIGNERS
294

FIGURE 5

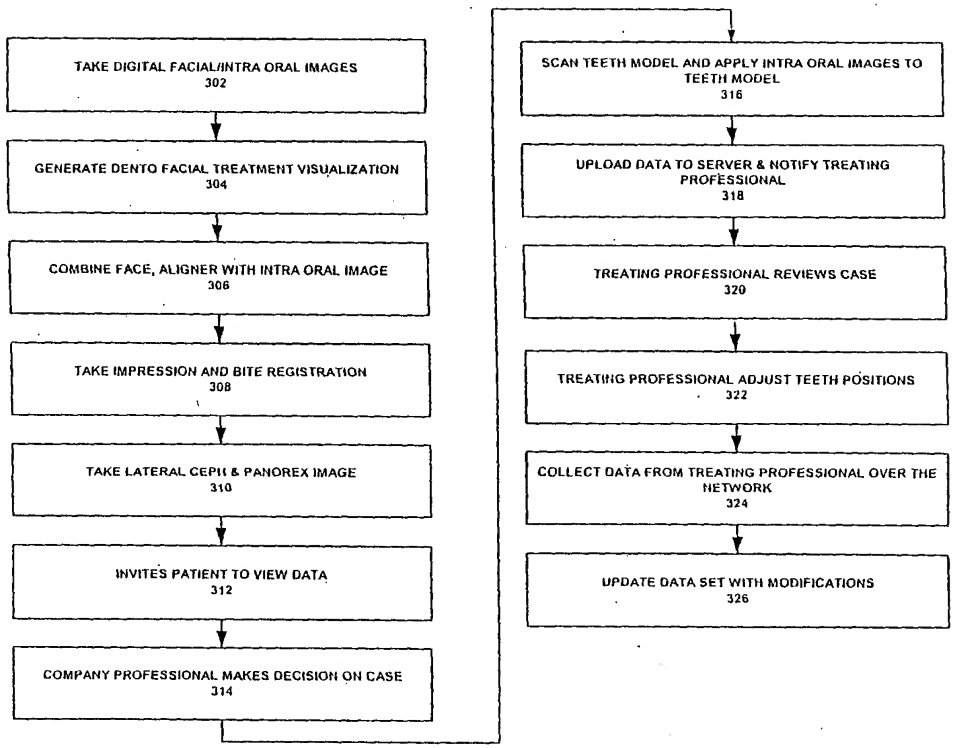
TAKE DIGITAL FACIAL/INTRA ORAL IMAGES
302
GENERATE DENTO FACIAL TREATMENT VISUALIZATION
304
COMBINE FACE, ALIGNER WITH INTRA ORAL IMAGE
306
TAKE IMPRESSION AND BITE REGISTRATION
308
TAKE LATERAL CEPH & PANOREX IMAGE
310
INVITES PATIENT TO VIEW DATA
312
COMPANY PROFESSIONAL MAKES DECISION ON CASE
314
SCAN TEETH MODEL AND APPLY INTRA ORAL IMAGES TO TEETH MODEL
316
UPLOAD DATA TO SERVER & NOTIFY TREATING PROFESSIONAL
318
TREATING PROFESSIONAL REVIEWS CASE
320
TREATING PROFESSIONAL ADJUST TEETH POSITIONS
322
COLLECT DATA FROM TREATING PROFESSIONAL OVER THE NETWORK
324
UPDATE DATA SET WITH MODIFICATIONS
326

FIGURE 6

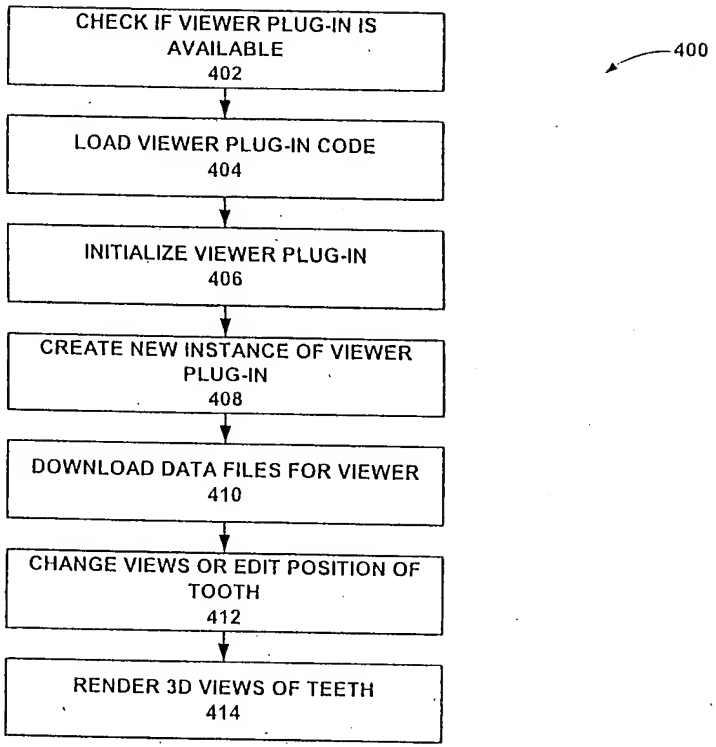
CHECK IF VIEWER PLUG-IN IS AVAILABLE
402
LOAD VIEWER PLUG-IN CODE
404
INITIALIZE VIEWER PLUG-IN
406
CREATE NEW INSTANCE OF VIEWER PLUG-IN
408
DOWNLOAD DATA FILES FOR VIEWER
410
CHANGE VIEWS OR EDIT POSITION OF TOOTH
412
RENDER 3D VIEWS OF TEETH
414
400

FIGURE 7

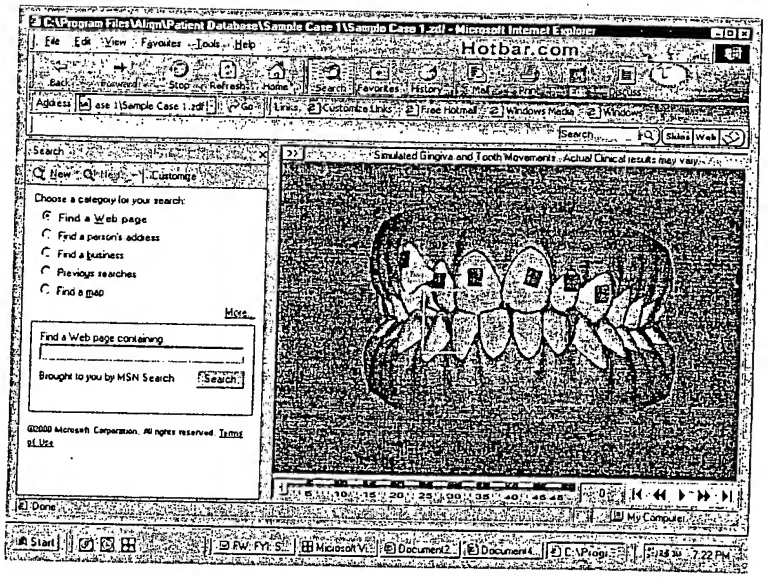
Hotbar.com
Simulated Gingiva and Tooth Movements - Actual Clinical results may vary.
Choose a category for your search:
Find a Web page
Find a person's address
Find a business
Previous searches
Find a map
More...
Find a Web page containing
Brought to you by MSN Search
Search
Done
My Computer
Start

FIGURE 8

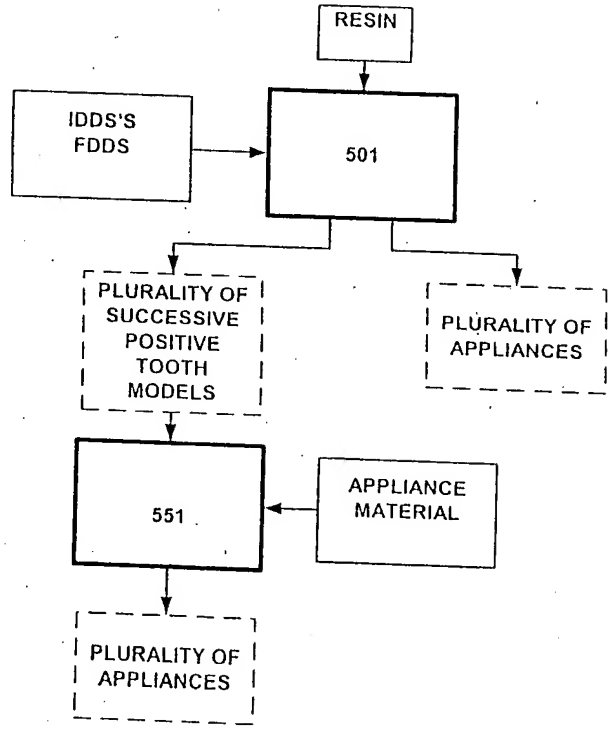
RESIN
IDDS'S
FDDS
501
PLURALITY OF
SUCCESSIVE
POSITIVE
TOOTH
MODELS
PLURALITY OF
APPLIANCES
551
APPLIANCE
MATERIAL
PLURALITY OF
APPLIANCES

FIGURE 9

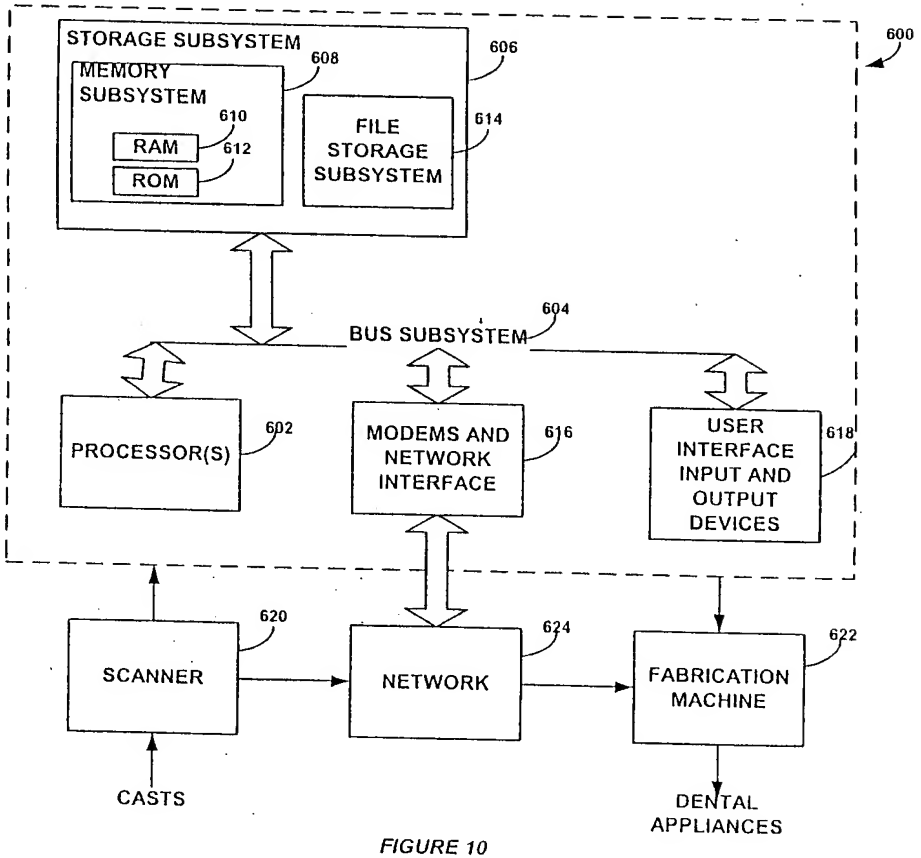
600
STORAGE SUBSYSTEM
606
MEMORY SUBSYSTEM
608
610
RAM
612
ROM
FILE STORAGE SUBSYSTEM
614
604
BUS SUBSYSTEM
PROCESSOR(S)
602
MODEMS AND NETWORK INTERFACE
616
USER INTERFACE INPUT AND OUTPUT DEVICES
618
SCANNER
620
NETWORK
624
FABRICATION MACHINE
622
CASTS
DENTAL APPLIANCES

FIGURE 10